

### AMENDMENTS TO THE CLAIMS

Please add new Claims 31-37 as indicated below.

Claims 1-22 (**Canceled**).

23. (**Original**): A method for controlling battery power comprising the acts of:  
selectively providing a first external power source or a second external power source to a device coupled to a system power terminal;

coupling an internal battery to the system power terminal via a series-connected bi-directional transistor;

charging the internal battery by regulating the bi-directional transistor to conduct a charging current in a first direction from the system power terminal to a positive battery terminal during a charging mode; and

discharging the internal battery by regulating the bi-directional transistor to conduct a discharging current in a second direction from the positive battery terminal to the system power terminal during a discharging mode.

24. (**Original**): The method of Claim 23, further comprising the acts of:

sensing a supply current from the second external power source; and

linearly adjusting the charging current to prevent the supply current from exceeding a predefined threshold.

25. (**Original**): The method of Claim 23, wherein the impedance of the bi-directional transistor varies to limit the level of the charging current or the discharging current.

26. (**Original**): The method of Claim 23, wherein the impedance of the bi-directional transistor varies inversely with the discharging current level during the discharging mode.

27. (**Original**): The method of Claim 23, wherein the charging mode occurs when the voltage on the system power terminal is greater than the voltage of the internal battery.

28. (**Original**): The method of Claim 23, wherein the discharging mode occurs when the voltage on the system power terminal is less than the voltage of the internal battery.

29. (**Original**): The method of Claim 23, wherein the discharging mode occurs in response to a discharge command.

30. (**Canceled**).

31. (New): A method of controlling battery power, the method comprising:  
selectively providing an external primary power source and an external secondary power source to a system power terminal of a device with an internal battery;  
coupling the internal battery to the system power terminal using a bi-directional transistor with a control terminal; and  
driving the control terminal to regulate current conducted by the bi-directional transistor to charge the internal battery during a charging mode and to discharge the internal battery during a discharging mode.
32. (New): The method of Claim 31, wherein the bi-directional transistor disconnects the internal battery from the system power terminal during a sleep mode.
33. (New): The method of Claim 31, wherein the external primary power source is an AC adapter and the external secondary power source is a USB power interface.
34. (New): The method of Claim 31, wherein the external secondary power source is automatically disconnected when the external primary power source is connected.
35. (New): The method of Claim 31 further comprising:  
sensing current supplied by the external secondary power source to generate a current sensed signal;  
comparing the current sensed signal to a threshold value; and  
generating an overriding signal to the control terminal of the bi-directional transistor to limit a charging current to a predefined level.
36. (New): The method of Claim 31, wherein the bi-directional transistor is a field effect transistor and the control terminal is a gate terminal.
37. (New): The method of Claim 31, wherein the bi-directional transistor is a P-channel MOSFET with a configurable body contact.